

TABLE C-1
Summary of CNG Test Results

Vehicle	Emission Control Systems	Test #	NMOG (g/mi)	CO (g/mi)	NOx (g/mi)	Ozone (g/mi)	Ozone/NMOG	95% UCB Criterion $RAF_{avg} + (1.96 \times SD) < 1.15 \times RAF_{avg}$
1992 Sierra Truck 5.0L 6,500 mi	TWC, O2, EGR Fuel Mixer IMPCO Fuel Conversion Kit	77C1 77C2 77C3 77C4	0.062 0.064 0.063 0.078	1.30 1.30 1.42 1.71	0.271 0.246 0.258 0.195	0.067 0.076 0.071 0.086	1.081 1.188 1.127 1.103	
		Mean:	0.067	1.433	0.243	0.075	1.124	0.39 0.41
1992 Corsica 3.1L 3,300 mi	TWC, O2, AIR EGR Fuel Mixer IMPCO Fuel Conversion Kit	72C1 72C2 72C3 72C4 72C5 72C6	0.021 0.022 0.020 0.024 0.022 0.024	0.39 0.37 0.31 0.35 0.35 0.34	0.070 0.089 0.108 0.075 0.094 0.102	0.028 0.033 0.028 0.030 0.036 0.034	1.333 1.500 1.400 1.250 1.636 1.417	
		Mean:	0.022	0.35	0.090	0.032	1.423	0.56 0.52
1992 Ranger 4.0L 18,300 mi	TWC(2), HO2 ANGI Fuel Conversion Kit	73C2 73C3 73C5 73C6	0.027 0.023 0.028 0.030	0.53 0.54 0.58 0.50	0.176 0.167 0.200 0.153	0.035 0.032 0.032 0.035	1.296 1.391 1.143 1.167	
		Mean:	0.027	0.537	0.174	0.034	1.249	0.48 0.45
1990 LeSabre 3.8L 17,700 mi	TWC, EGR, HO2 Fuel Mixer IMPCO Conv. Kit	65C1 65C2 65C5	0.028 0.035 0.033	0.48 0.70 0.69	0.242 0.249 0.237	0.050 0.061 0.054	1.786 1.743 1.636	
		Mean:	0.032	0.623	0.243	0.055	1.722	0.60 0.63
1990 Dodge Caravan 3.0L 14,400 mi	TWC, HO2, OBD Fuel Mixer IMPCO Fuel Conversion Kit	71C2 71C4 71C5 71C6	0.012 0.019 0.022 0.019	0.48 0.91 1.03 1.02	0.104 0.226 0.267 0.296	0.016 0.029 0.028 0.031	1.333 1.526 1.273 1.632	
		Mean:	0.018	0.860	0.223	0.026	1.441	0.59 0.54
1992 Crown Vic 4.6L 1,600 mi	HO2(2), TWC(2), EGR Ford Fuel Conversion	70C2 70C3 70C4 70C5	0.019 0.016 0.018 0.014	2.16 1.78 2.22 1.62	0.098 0.108 0.102 0.096	0.023 0.020 0.023 0.019	1.211 1.250 1.278 1.357	
		Mean:	0.017	1.942	0.101	0.021	1.274	0.45 0.48

1991 Acclaim 3.0L 16,700 mi	TWC, HO2, EGR Fuel Mixer IMPCO Fuel Conversion Kit	76C1 76C2 76C3 76C4	0.032 0.033 0.034 0.034	1.42 1.93 1.85 1.85	0.153 0.150 0.160 0.132	0.037 0.038 0.038 0.039	1.156 1.152 1.118 1.147		
		Mean:	0.033	1.762	0.149	0.038	1.443	0.38	0.42

TABLE C-2
Summary of LPG Test Results

Vehicle	Emission Control Systems	Test #	NMOG (g/mi)	CO (g/mi)	NOx (g/mi)	Ozone (g/mi)	Ozone/NMOG	95% UCB Criterion $RAF_{avg} + (1.96 \times SD) < 1.15 \times RAF_{avg}$	
1991 Lumina 3.1L 7,500 mi	TWC, O2, AIR, EGR, OBD Fuel Mixer; IMPCO Conv. Kit	67C1 67C2 67C3	0.088 0.099 0.101	1.05 1.16 1.23	0.192 0.226 0.202	0.154 0.157 0.164	1.750 1.586 1.624		
		Mean:	0.096	1.147	0.207	0.158	1.653	0.58	0.61
1992 Taurus 3.8L 20,200 mi	TWC(2), HO2, EGR Fuel Mixer IMPCO Conv. Kit	68C1 68C2 68C3 68C4	0.085 0.080 0.101 0.086	2.22 2.20 2.61 2.46	0.099 0.100 0.098 0.102	0.128 0.116 0.157 0.121	1.506 1.450 1.554 1.407		
		Mean:	0.088	2.373	0.100	0.131	1.479	0.51	0.55
1992 Century 3.3L 24,300 mi	TWC(2), O2 Fuel Mixer IMPCO Fuel Conversion Kit	75C1 75C2 75C3 75C4	0.091 0.111 0.093 0.100	1.06 1.08 1.21 1.06	0.210 0.180 0.199 0.205	0.128 0.145 0.123 0.131	1.407 1.306 1.323 1.310		
		Mean:	0.099	1.103	0.199	0.132	1.336	0.46	0.49
1993 Lumina 3.1L 12,300 mi	TWC, EGR, AIR HO2; Fuel Mixer IMPCO Conv. Kit	81C2 81C3 81C4	0.094 0.093 0.108	1.88 1.68 1.79	0.144 0.170 0.219	0.145 0.132 0.158	1.543 1.419 1.463		
		Mean:	0.098	1.779	0.178	0.145	1.475	0.51	0.54
1992 Century 3.0L 26,500 mi	TWC, O2;Fuel Mixer; IMPCO Fuel Conv. Kit	83C1 83C2 83C3	0.100 0.103 0.102	2.20 2.65 2.83	0.103 0.122 0.126	0.123 0.146 0.145	1.230 1.417 1.422		
		Mean:	0.102	2.560	0.117	0.138	1.356	0.50	0.50

1993 Taurus 3.8L 4,800 mi	HO2(2), TWC(2), EGR; IMPCO Fuel Conversion Kit	74C4 74C5 74C8	0.074 0.075 0.084	0.51 0.53 0.54	0.092 0.094 0.102	0.095 0.097 0.117	1.284 1.293 1.393		
		Mean:	0.078	0.524	0.096	0.103	1.323	0.46	0.49
1993 Regal 3.1L 2,400 mi	TWC, HO2, EGR, AIR; Fuel Mixer IMPCO Fuel Conv. Kit	80C2 80C3 80C4	0.074 0.079 0.075	1.40 1.28 1.17	0.025 0.031 0.038	0.115 0.114 0.110	1.554 1.443 1.467		
		Mean:	0.076	1.284	0.031	0.113	1.488	0.51	0.55

TABLE C-3
Summary of M85 Test Results

Vehicle	Emission Control Systems	Test #	NMOG (g/mi)	CO (g/mi)	NOx (g/mi)	Ozone (g/mi)	Ozone/NMOG
1992 Lumina 3.1L 15,600 mi	TWC, O2, EGR, Close-Coupled Cat	86C1 86C2 86C3 86C4	0.097 0.096 0.088 0.098	1.142 0.904 1.246 1.345	0.161 0.173 0.084 0.208	0.140 0.174 0.150 0.159	1.443 1.813 1.705 1.622
		Mean:	0.095	1.159	0.157	0.156	1.646

TABLE C-4
Summary of Medium-Duty Vehicle RF-A Test Results

Vehicle	Emission Control Systems	Test #	NMOG (g/mi)	CO (g/mi)	NOx (g/mi)	Ozone (g/mi)	Ozone/NMOG
1993 F150 5.0L 23,000 mi	TWC, OC, AIR, HO2S, EGR, MFI	1C22 1C23 1C24 1C25	0.120 0.119 0.125 0.112	0.886 0.814 0.886 0.772	0.555 0.732 0.712 0.652	0.277 0.309 0.294 0.281	2.302 2.561 2.327 2.497
		Mean:	0.119	0.840	0.663	0.290	2.422
1993 F150 5.0L 27,400 mi	TWC, OC, AIR, HO2S, EGR, MFI	4C16 4C17 4C18 4C19	0.184 0.176 0.161 0.165	4.031 3.717 2.473 2.348	0.592 0.656 0.449 0.707	0.546 0.541 0.449 0.509	2.973 3.070 2.797 3.088
		Mean:	0.172	3.142	0.652	0.511	2.982
1994 F150 5.0L 5,500 mi	TWC, OC, AIR, HO2S, EGR, SFI	7C2 7C3 7C4 7C5 7C6	0.054 0.068 0.069 0.057 0.046	0.771 0.768 0.817 0.706 0.632	0.328 0.297 0.290 0.300 0.348	0.167 0.222 0.238 0.189 0.145	3.096 3.270 3.447 3.302 3.169
		Mean:	0.059	0.739	0.313	0.192	3.257
1994 F150 5.0L 10,500 mi	TWC, OC, AIR, HO2S, EGR, SFI	9C2 9C3 9C4 9C6	0.057 0.061 0.069 0.058	0.548 0.560 0.601 0.461	0.268 0.330 0.314 0.380	0.166 0.215 0.222 0.166	2.906 3.530 3.245 2.868
		Mean:	0.061	0.543	0.323	0.192	3.137
1994 F150 5.0L 21,000 mi	TWC, OC, AIR, HO2S, EGR, SFI	10C3 10C5 10C6 10C10	0.076 0.077 0.086 0.082	0.996 0.692 0.629 0.743	0.335 0.390 0.331 0.328	0.245 0.239 0.276 0.241	3.210 3.085 3.194 2.920
		Mean:	0.080	0.765	0.346	0.250	3.102

LEGEND	
TWC	Three-Way Catalyst
O2	Oxygen Sensor
EGR	Exhaust Gas Recirculation
AIR	Secondary Air Injection
HO2	Heated Oxygen Sensor
OBD	On-Board Diagnostic II System
MFI	Multipoint Fuel Injection
SFI	Sequential Multipoint Fuel Injection
OC	Oxidation Catalyst